

FIG.1

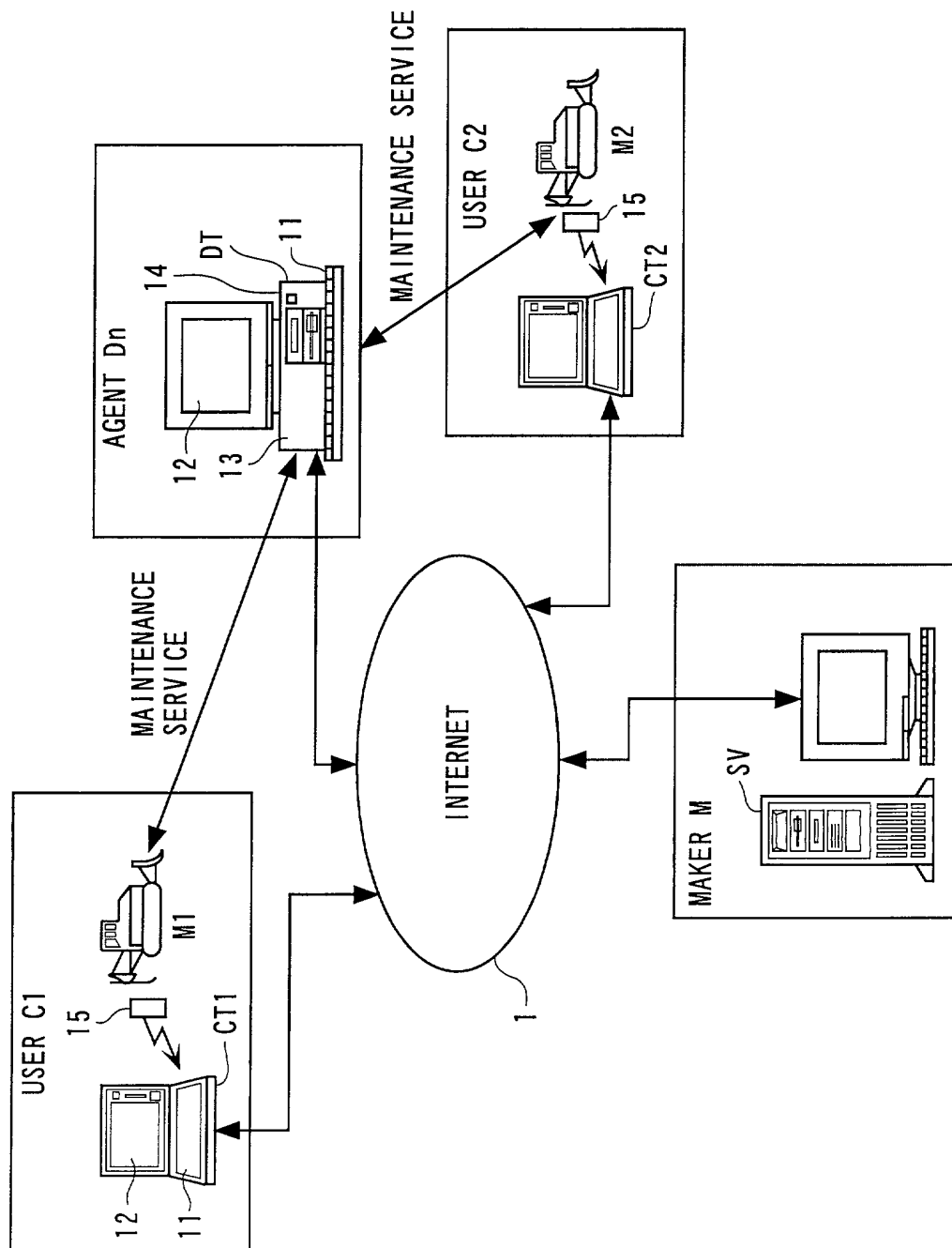


FIG. 2

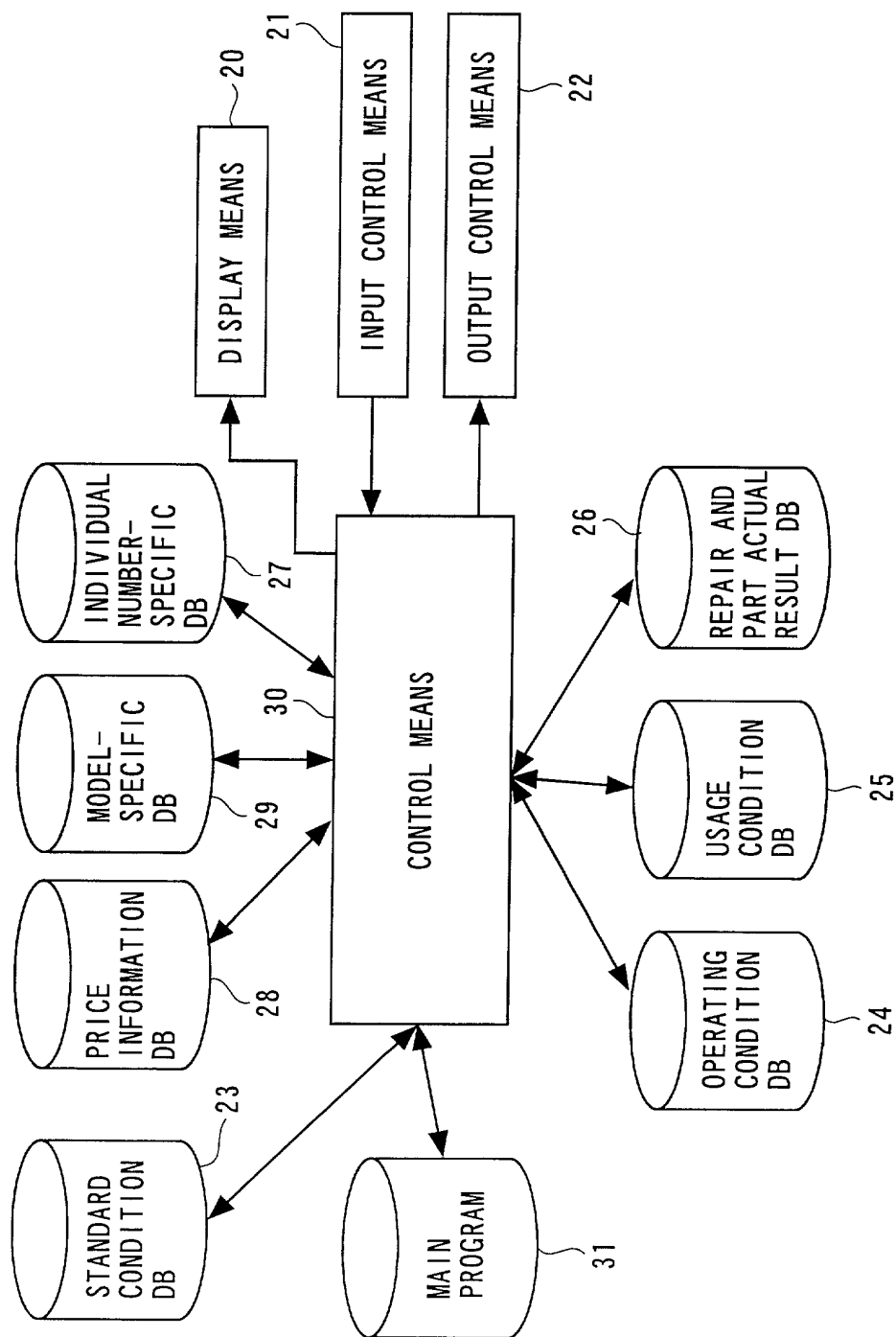


FIG. 3

STANDARD CONDITION DB

MODEL C					
MODEL B					
MODEL A					
MAINTENANCE MANAGEMENT ITEMS					
MAINTENANCE MANAGEMENT ITEM		EVERY H1	EVERY H2	EVERY H3	EVERY H4
PARTS OF MAIN BODY					
LUBRICATING OIL	ENGINE OIL		○		
	TRANSMISSION OIL			○	
	WORKING MACHINE OIL			○	
UNDER THE BODY	CLEANING OF AIR CLEANER		○		
	REPLACEMENT OF FILTER			○	
	CHECK		○		
ENGINE	VALVE CLEARANCE			○	
	FUEL INJECTION NOZZLE			○	

23A

23B

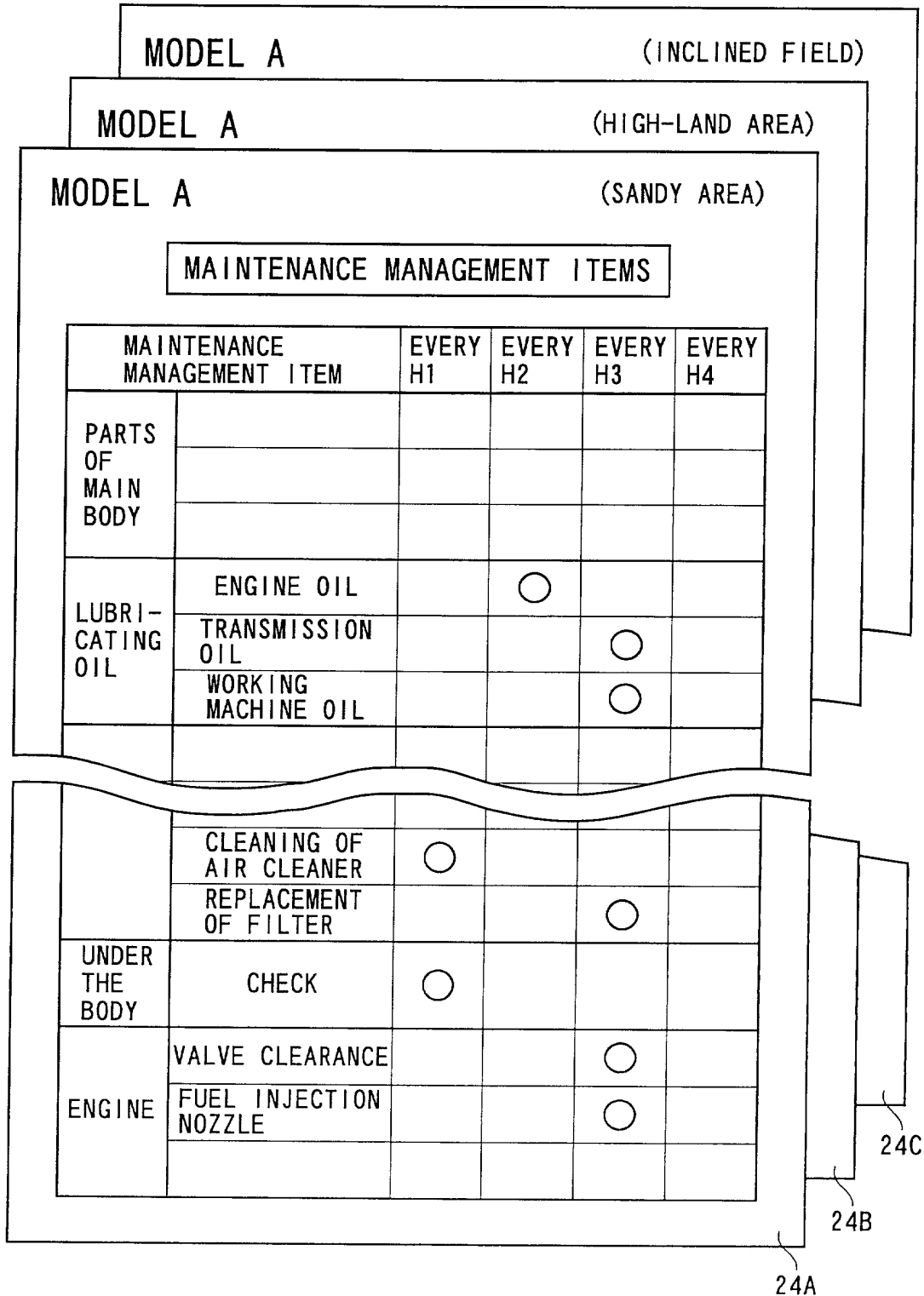
23C

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F I G . 4

OPERATION ENVIRONMENT CONDITION DB



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F I G . 5

USAGE CONDITION DB

MODEL A		(CONDITIONS 3)			
MODEL A		(CONDITIONS 2)			
MODEL A		(CONDITIONS 1)			
MAINTENANCE MANAGEMENT ITEMS		LOW-QUALITY LUBRICATING OIL LOW-QUALITY FUEL			
MAINTENANCE MANAGEMENT ITEM		EVERY H1	EVERY H2	EVERY H3	EVERY H4
PARTS OF MAIN BODY					
LUBRICATING OIL	ENGINE OIL		○		
	TRANSMISSION OIL			○	
	WORKING MACHINE OIL			○	
UNDER THE BODY	CLEANING OF AIR CLEANER	○			
	REPLACEMENT OF FILTER			○	
	CHECK	○			
ENGINE	VALVE CLEARANCE			○	
	FUEL INJECTION NOZZLE			○	

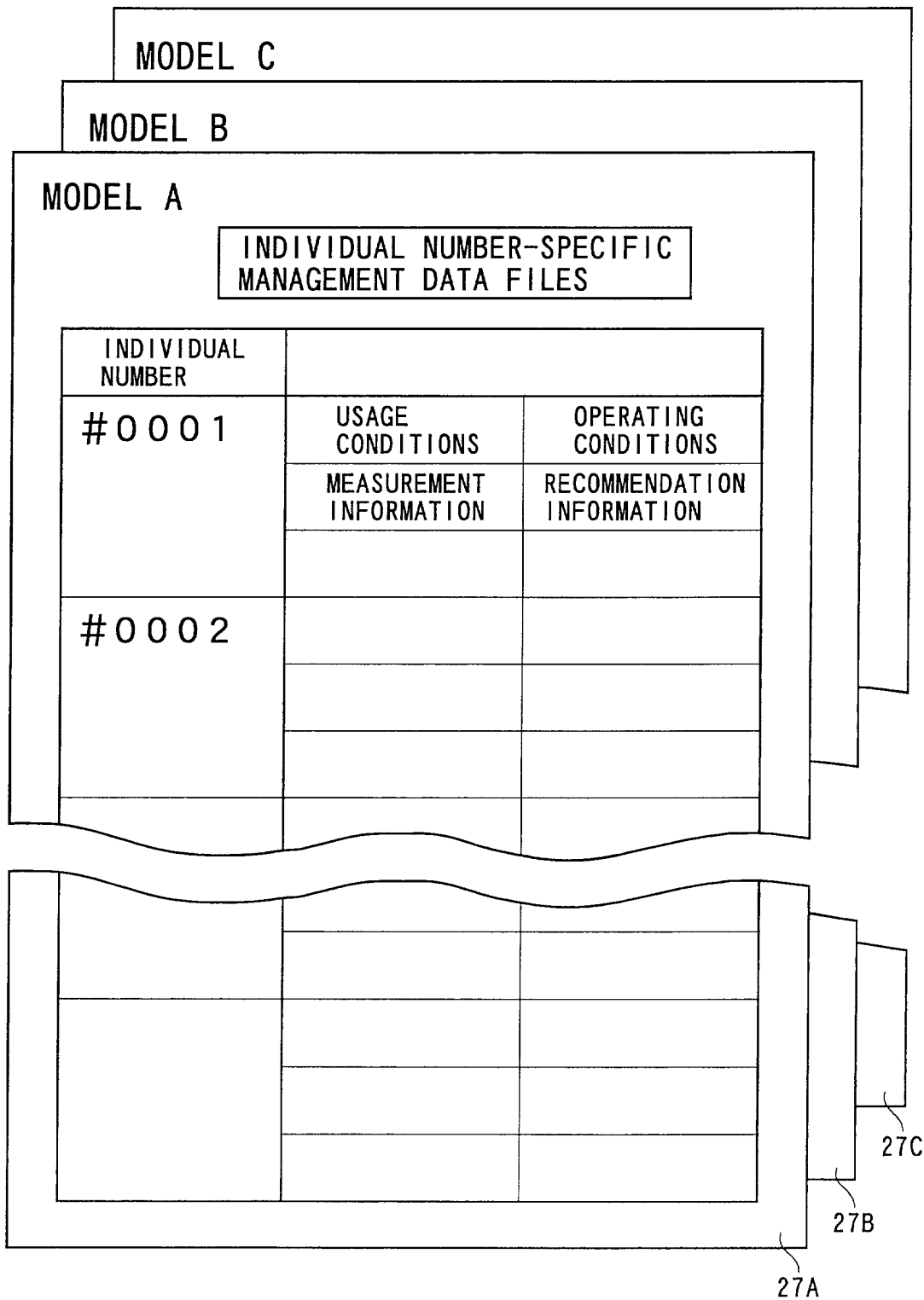
25A

25B

25C

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FIG. 6

INDIVIDUAL NUMBER-SPECIFIC DB

F I G . 7

INDIVIDUAL NUMBER-SPECIFIC MAINTENANCE MANAGEMENT DATA TABLE

INDIVIDUAL NUMBER	MODEL	CONTRACT RANK	START DATA OF THE MAINTENANCE CONTRACT	OPERATION TIME UNDER MAINTENANCE CONTRACT	OPERATION TIME	MAINTENANCE WORK HISTORY	MAINTENANCE ACTUAL RESULT VALUE [J]	USAGE CONDITIONS	OPERATING CONDITIONS
0001	A	R 1	99/3/13	30000			32, 000		
0002	A	R 1	00/1/11	20000			5, 000		
0003	A	R 3							
0004	A	R 2							
0001	B	R 1							
0002	B								
0001	C								

27A

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F I G . 8

PRICE INFORMATION DB

COUNTRY	JAPAN	AGENT	X	CLIENT	A
PART NUMBER	PRICE		WORK CODE	PRICE	
AAA-BBB	¥XX,XXX-		PPP-QQQ	¥Y,YYY-	

28A

06040" 06400660



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FIG. 9

MODEL-SPECIFIC MAINTENANCE RANK TABLE

CONTRACT RANK MODEL	R 1	R 2	R 3	R 4
A	50, 000	50, 000	50, 000	100, 000
B	35, 000	50, 000	65, 000	80, 000
C				
D				

X				
Y				
Z				

29D

FIG. 9

F I G. 10

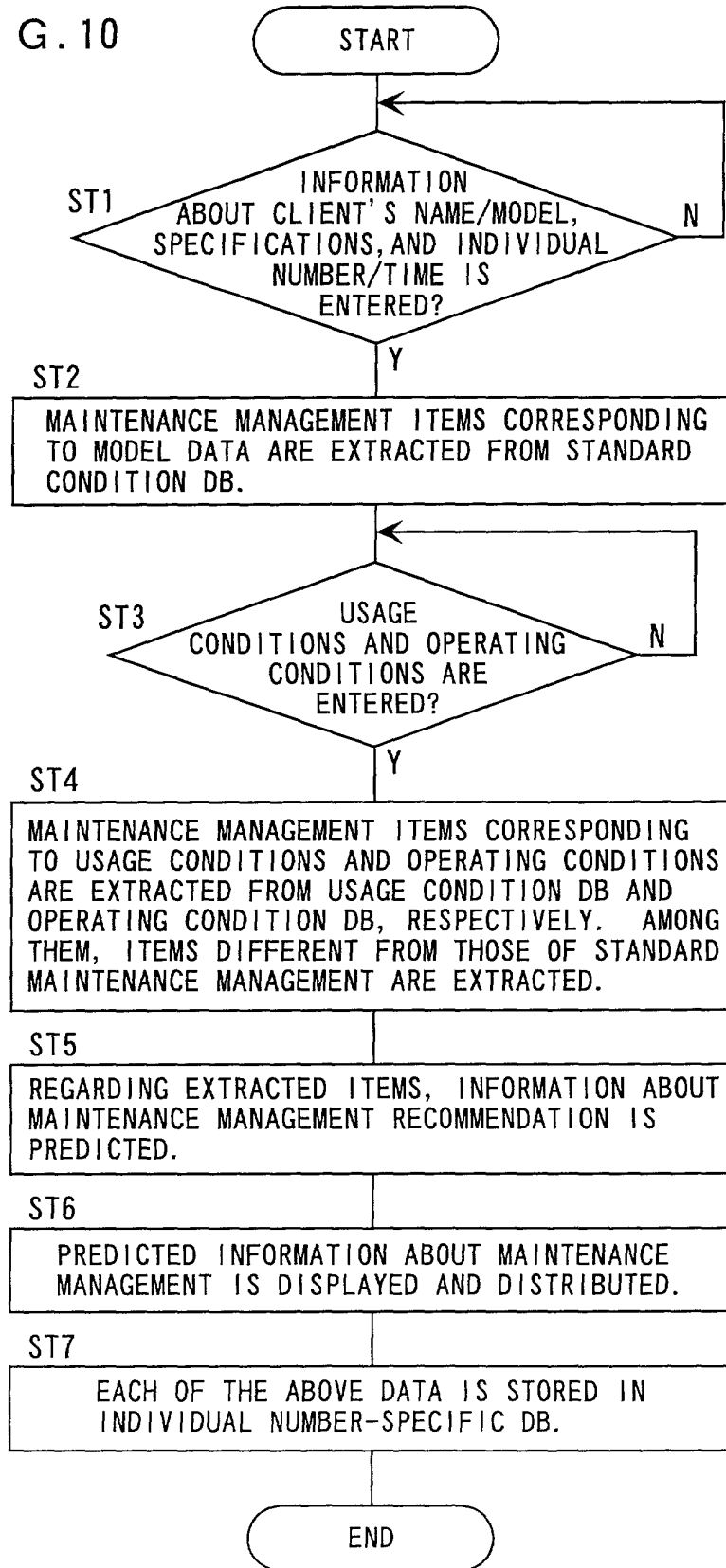


FIG. 11(A)

VARIATIONS DEPEND ON THE OPERATING  
CONDITIONS AND THE USAGE CONDITIONS.

REPLACEMENT RATE FOR EACH PART

HORIZONTAL AXIS: OPERATION TIME,

VERTICAL AXIS: CHARACTERISTIC VALUE FOR EACH PART

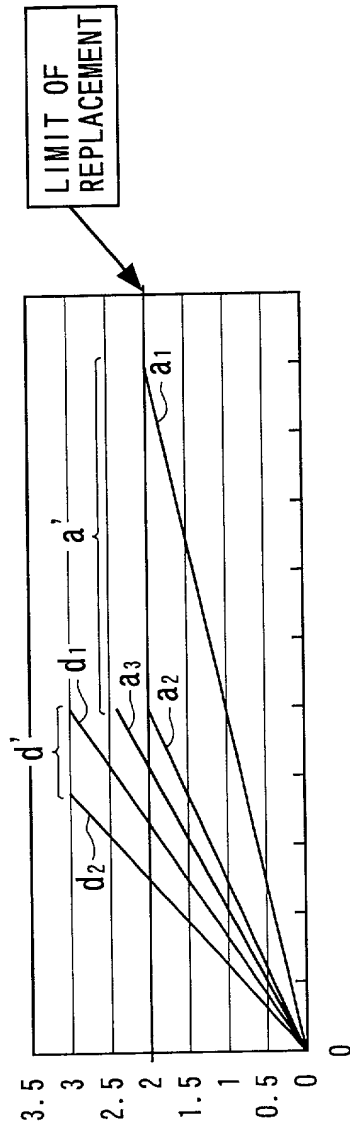


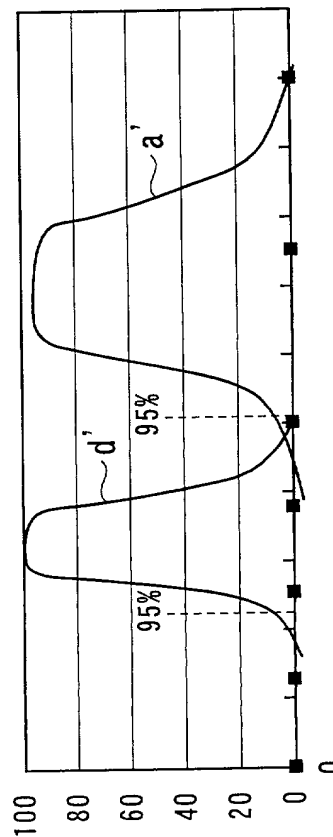
FIG. 11(B)

VARIATIONS DEPEND ON THE OPERATING  
CONDITIONS AND THE USAGE CONDITIONS.

REPLACEMENT RATE FOR EACH PART

HORIZONTAL AXIS: OPERATION TIME,

VERTICAL AXIS: REPLACEMENT PROBABILITY



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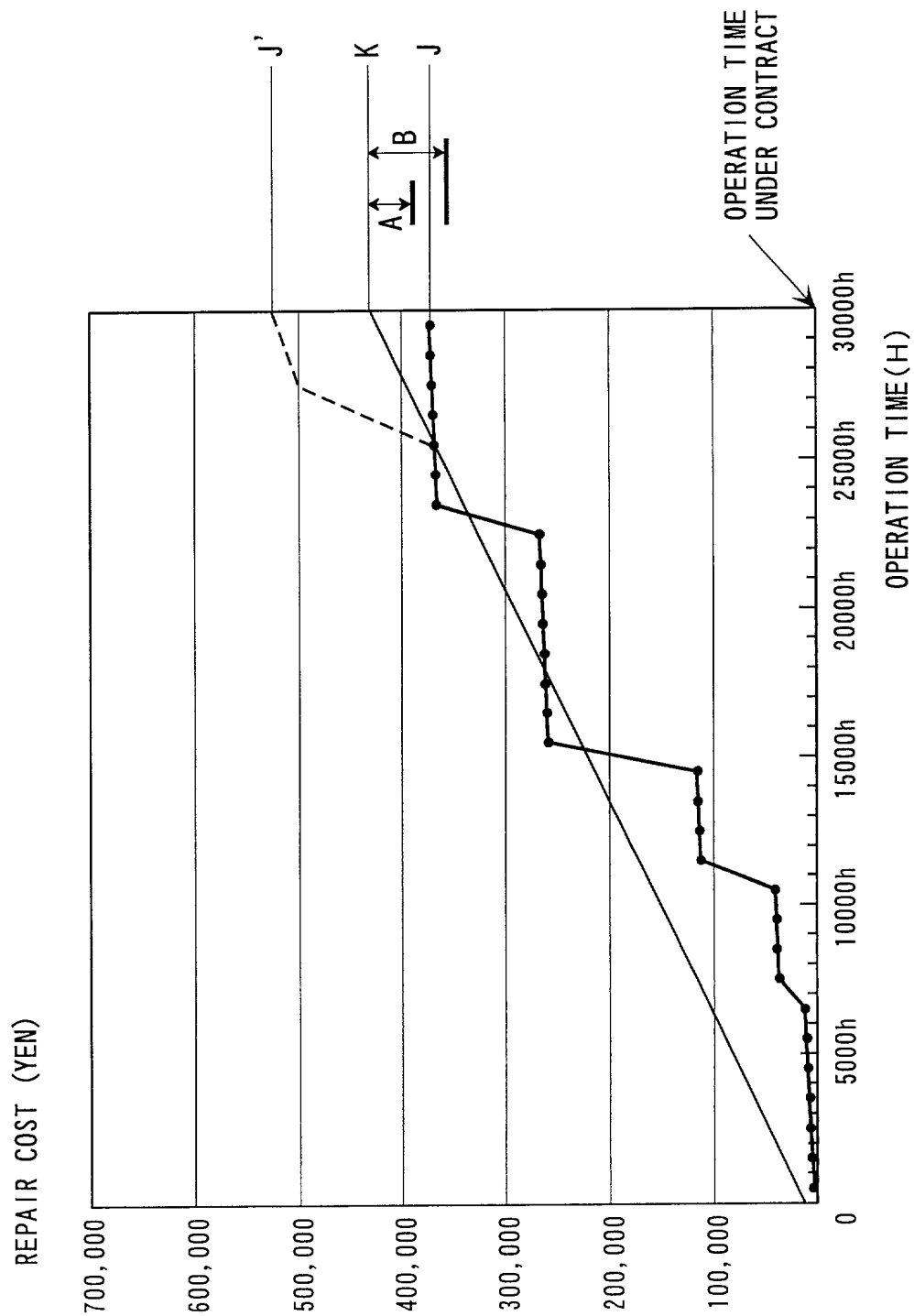
## F I G.12

<div style="border: 1px solid black; display: inline-block; padding: 2px 5px;">PUBLIC, CUSTOM MENU</div>		
1 MODEL, DATA	CONSTRUCTION MACHINE DATA	
<div style="border: 1px solid black; padding: 5px;">           CUSTOM COUNTRY DB            MODEL SPECIFICATIONS            INDIVIDUAL NUMBER            PRESENT            OPERATION TIME         </div>	<div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; justify-content: space-between;"> <div>A B C</div> <div>XYZ</div> </div> <div style="display: flex; justify-content: space-between;"> <div>#12345</div> <div>2000/3/20</div> </div> <div style="display: flex; justify-content: space-between;"> <div>9,040</div> <div></div> </div> </div>	<div style="border: 1px solid black; padding: 5px;">           CONTENTS OF THE NEXT RECOMMENDATION            REPLACEMENTS OF OIL AND FILTER            OPERATION TIME 9,250            MAINTENANCE TIME 2000/3/30            REMARKS RECOMMENDING THE REPLACEMENTS OF OIL AND FILTER.            COST            OPTION 1 \$200            OPTION 2 \$350         </div>
JUMP TO:		
<div style="border: 1px solid black; padding: 5px;"> <input type="radio"/> SERVICE MANAGER  <input type="radio"/> HEAVY MACHINERY MANAGEMENT  <input type="radio"/> RECOMMENDATION  <input type="radio"/> MAINTENANCE CONTRACT  <input type="radio"/> REPAIR HISTORY  <input type="radio"/> ACCUMULATED REPAIR COST  <input type="radio"/> PART BOOK  <input type="radio"/> REFERENCE CHART OF RECOMMENDED PARTS         </div>		
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">           OPERATING CONDITIONS           <div style="border: 1px solid black; height: 80px; margin-top: 5px;"></div> </div> <div style="width: 45%;">           USAGE CONDITIONS           <div style="border: 1px solid black; padding: 5px; margin-top: 5px;">             USAGE FUEL              LIGHT-OIL              SULFUR PART              LUBRICATING OIL              EARTH AND SAND              Si           </div> </div> </div>		
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">           MEASUREMENT INFORMATION           <div style="border: 1px solid black; padding: 5px; margin-top: 5px;">             MACHINE SURVEILLANCE INFORMATION              MEDICAL CHECKUP              OIL ANALYSIS              UNDER-BODY MEASUREMENT           </div> </div> <div style="width: 45%;">           2000/3/20              O.K. Go              2000/3/20              O.K. Go              2000/3/20              CAUTIONS              -----           </div> </div>		

F I G.13

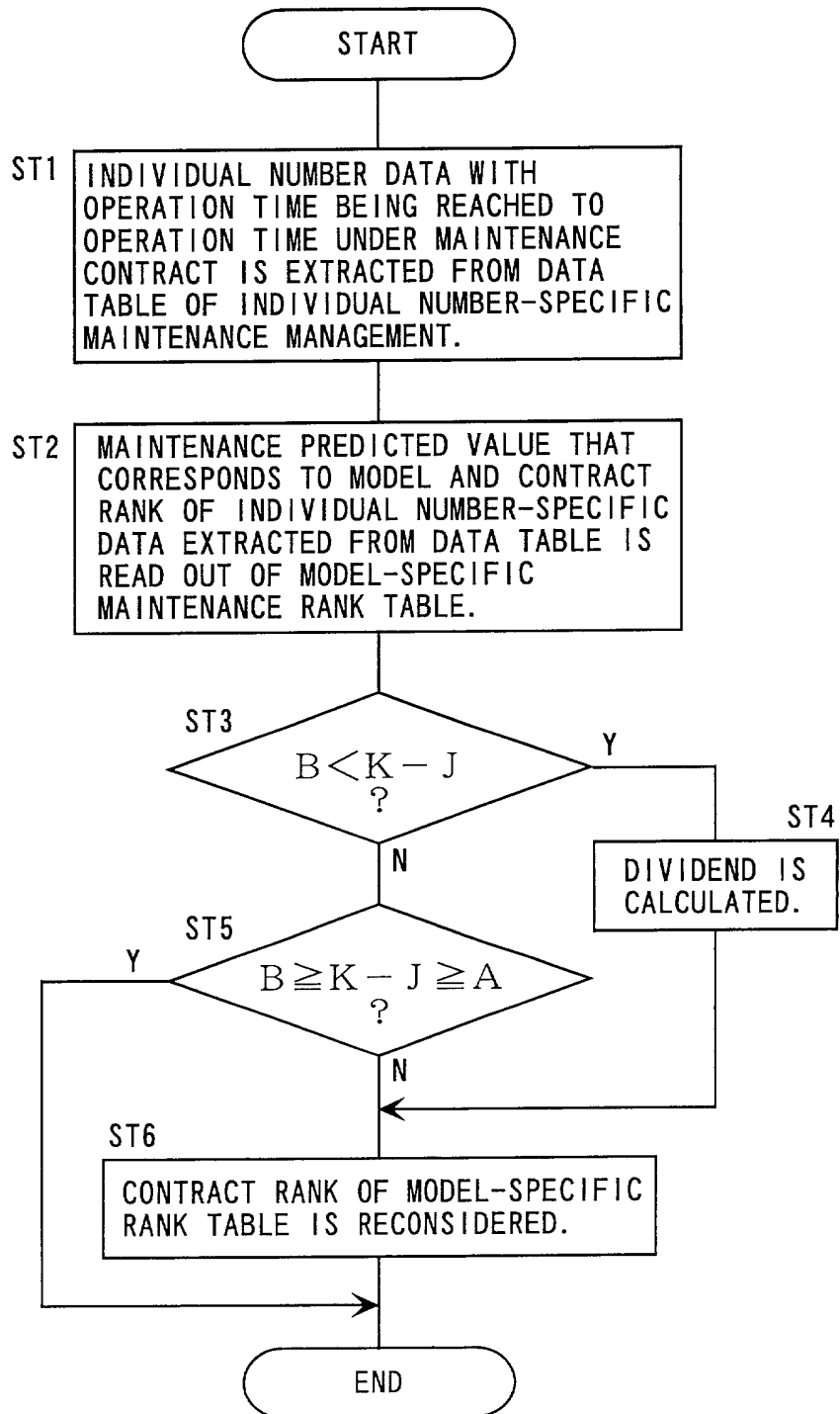
RECOMMENDATION		CUSTOM MENU																															
<div>2</div> <div>MODEL, DATA</div> <table border="1"> <tr> <td>CUSTOM COUNTRY DB</td> <td>A B C</td> </tr> <tr> <td>MODEL SPECIFICATIONS</td> <td>X Y Z</td> </tr> <tr> <td>INDIVIDUAL NUMBER</td> <td>#12345</td> </tr> <tr> <td>PRESENT</td> <td>2000/3/20</td> </tr> <tr> <td>OPERATION TIME</td> <td>9,040</td> </tr> </table>		CUSTOM COUNTRY DB	A B C	MODEL SPECIFICATIONS	X Y Z	INDIVIDUAL NUMBER	#12345	PRESENT	2000/3/20	OPERATION TIME	9,040	<div>MENU OF RECOMMENDATION</div> <div>OPTION 1</div> <table border="1"> <tr> <td colspan="2">REPLACEMENTS OF OIL AND FILTER</td> </tr> <tr> <td>OPERATION TIME</td> <td>9,500</td> </tr> <tr> <td>MAINTENANCE TIME AFTER THE NEXT</td> <td>2000/4/12</td> </tr> <tr> <td>ESTIMATION</td> <td>200 \$</td> </tr> <tr> <td>COST PER HOUR</td> <td>0.95 \$/h</td> </tr> </table> <div>OPTION 2</div> <table border="1"> <tr> <td colspan="2">REPLACEMENTS OF OIL AND FILTER (SOPHISTICATED PARTS)</td> </tr> <tr> <td>OPERATION TIME</td> <td>9,750</td> </tr> <tr> <td>MAINTENANCE TIME AFTER THE NEXT</td> <td>2000/4/22</td> </tr> <tr> <td>ESTIMATION</td> <td>350 \$</td> </tr> <tr> <td>COST PER HOUR</td> <td>0.76 \$/h</td> </tr> </table>		REPLACEMENTS OF OIL AND FILTER		OPERATION TIME	9,500	MAINTENANCE TIME AFTER THE NEXT	2000/4/12	ESTIMATION	200 \$	COST PER HOUR	0.95 \$/h	REPLACEMENTS OF OIL AND FILTER (SOPHISTICATED PARTS)		OPERATION TIME	9,750	MAINTENANCE TIME AFTER THE NEXT	2000/4/22	ESTIMATION	350 \$	COST PER HOUR	0.76 \$/h
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F I G.14



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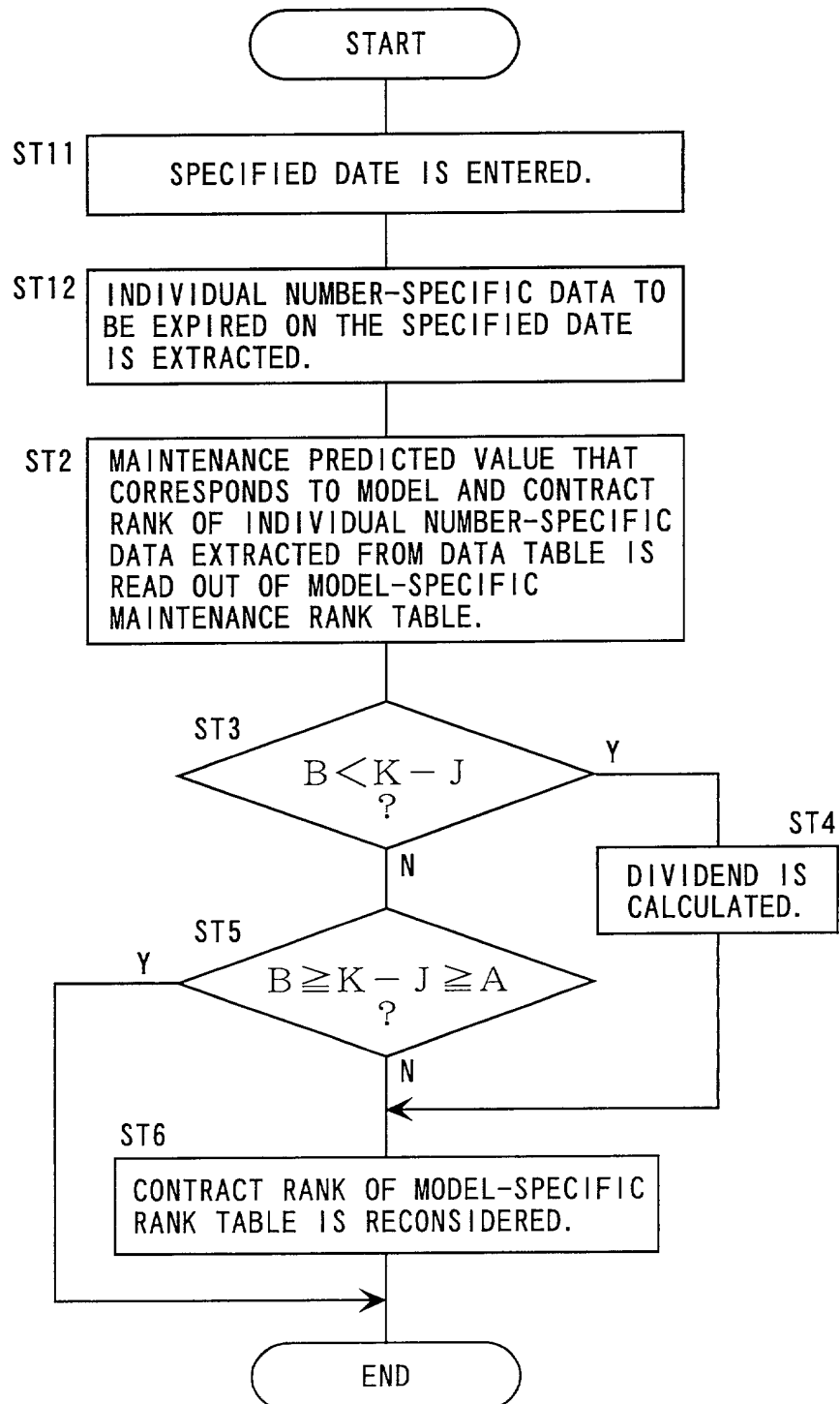
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F I G . 16

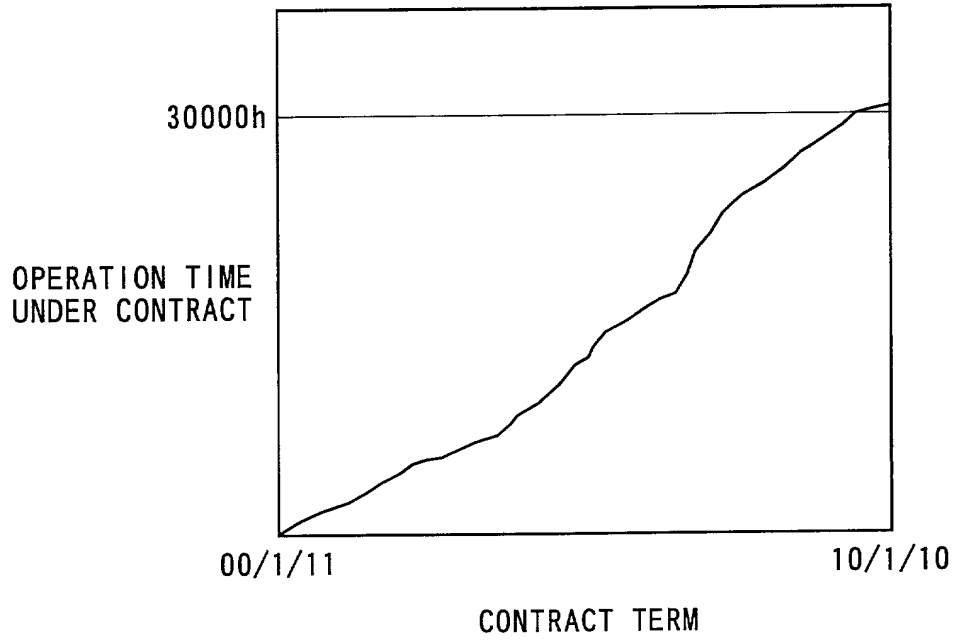


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